

MISSOURI GEOGRAPHIC REFERENCE SYSTEM  
MISSOURI DEPARTMENT OF NATURAL RESOURCES  
GEOLOGICAL SURVEY AND RESOURCE ASSESSMENT DIVISION  
LAND SURVEY PROGRAM  
PO Box 250, Rolla, Missouri 65402, (573) 368-2300

STATION NAME: SL-50 PID: AA8691  
COUNTY: St. Louis STATE: Missouri  
TOWNSHIP: 45 NORTH, RANGE: 05 EAST, SECTION: 17  
USGS 7.5' QUAD: Creve Coeur  
DATE MONUMENTED: 1992 MONUMENTED BY: MODNR

**TECHNICAL DATA TABLE:**

(All data in meters 1 meter = 3.28083333 feet)

<b>HORIZONTAL:</b> NAD 1983	<b>VERTICAL:</b> NAVD 1988
DATE OF OBSERVATIONS: 2003	DATE OF OBSERVATIONS: 2003
DATE OF ADJUSTMENT: 2000	DATE OF ADJUSTMENT: 2003
ORDER: 1st	ORDER:
LATITUDE: 38°38'51.17369"	ELEVATION: 161.4
LONGITUDE: 90°28'56.42113"	ELLIPSOID HEIGHT: 130.14

**MISSOURI COORDINATE SYSTEM 1983:**

NORTH (Y): 312307.133  
EAST (X): 251537.350  
ZONE: East  
CONVERGENCE: +00°00'40"  
GRID FACTOR: .9999129

**AZIMUTH INFORMATION:**

STATION: SL-50 AZIMUTH MARK: SL-50A  
GEODETIC:  
ASTRONOMIC: 170°02'04"  
GRID: 170°01'24"

**REMARKS**

The HORIZONTAL POSITION was determined by GPS observations and adjusted by the National Geodetic Survey in 2000.

The AZIMUTH was determined by observation of Polaris with an estimated accuracy of 1 second of arc.

The ELEVATION was determined by GPS observations.

The ELLIPSOID HEIGHT was determined by GPS observations referenced to NAD83.

GEOID 99 was used in determining ELEVATION and ELLIPSOID HEIGHT.

Date of Report 2003

**STATION:** SL-50

**DESCRIPTION:** The station and azimuth marks are Mo DNR GRS aluminum disk set in concrete. The station is stamped "SL-50, 1992" and is flush with the ground. The azimuth mark is stamped "SL-50A, 1992" and is flush with the ground.

**STATION, AZIMUTH MARKS AND REFERENCE TIES:** The station is located on the west side of Mason Road. It is 63.0 feet north of the center of a fire hydrant; 23.6 feet east-northeast of the east end of a subdivision sign; 10.6 feet east of the edge of a sidewalk; 38.5 feet southeast of a cut cross on manhole rim and 36.3 feet south-southwest of a pk-nail and shiner in a power pole.

The azimuth mark is located about 0.30 mile south of the station at the St. Louis Priory School and on the east side of Mason Road. It is 73.5 feet northeast of a pk-nail and shiner in a power pole; 17.5 feet east of the center of Mason Road; 86.0 feet southeast of a pk-nail and shiner in a power pole; 227 feet south of the center of the entrance to the school; 68.8 feet south-southwest of a 12" oak and 54.6 feet north-northwest of a pk-nail and shiner in a 14" pine.

**STATION & AZIMUTH MARK TO REACH:** To reach the station from the intersection of Interstate 64, U.S. Highway 40-61 and Missouri Highway 141 (Woods Mill Road), go west on U.S. Highway 40-61 for 1.8 miles to the intersection with Mason Road. Turn left on Mason Road and go north for 0.6 mile to the station on the left as described.

To reach the azimuth mark from the station, return south on Mason Road for 0.3 mile to the St. Louis Priory School and the mark on the left as described.

**SPECIAL INFORMATION:**

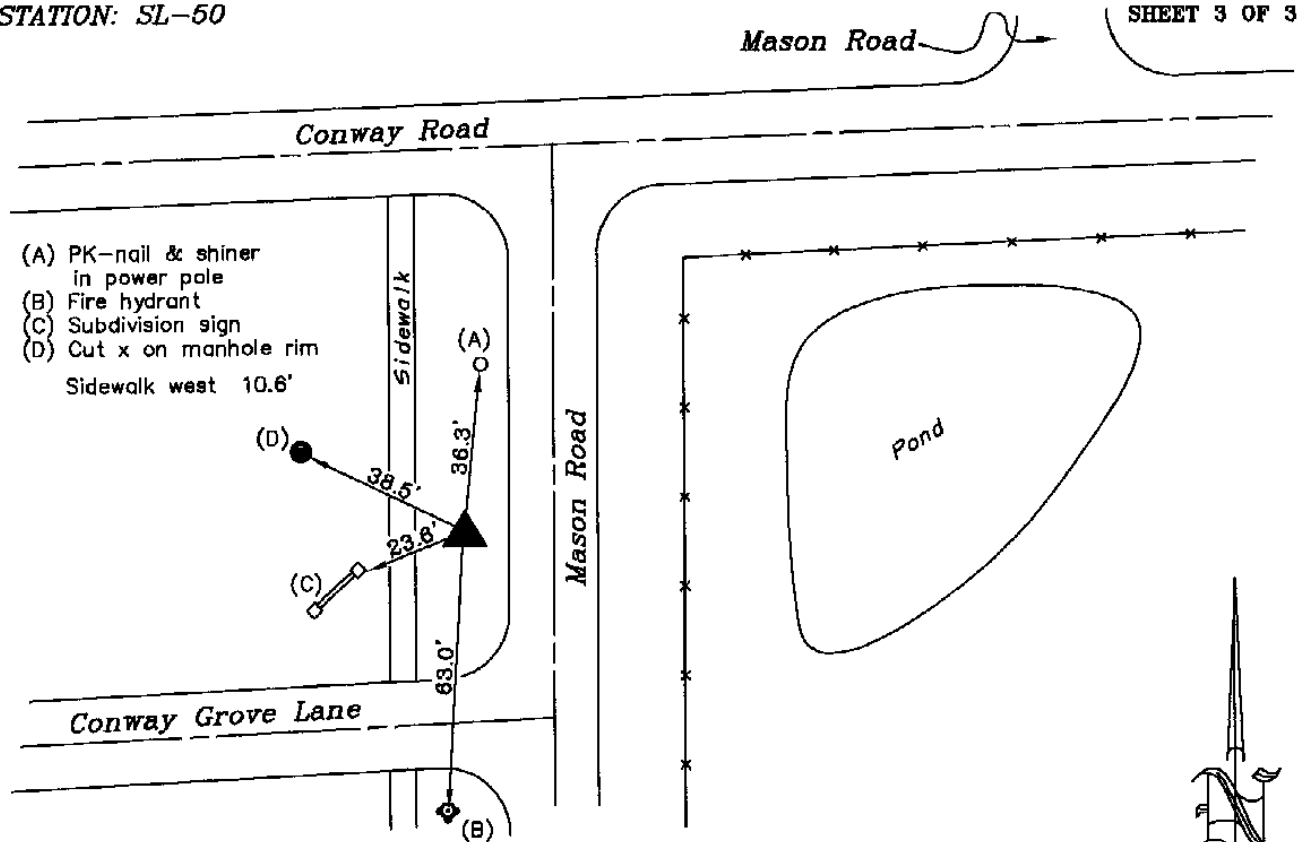
**SUPERSEDED SURVEY CONTROL**

NGS (1997)	LAT: 38°38'51.17462"	LONG: 90°28'56.42128"
NGS (1995)	LAT: 38°38'51.18870"	LONG: 90°28'56.41850"
MODNR (1993)	LAT: 38°38'51.18827"	LONG: 90°28'56.41881"
MODNR (1990)	LAT: 38°38'51.18822"	LONG: 90°28'56.41900"

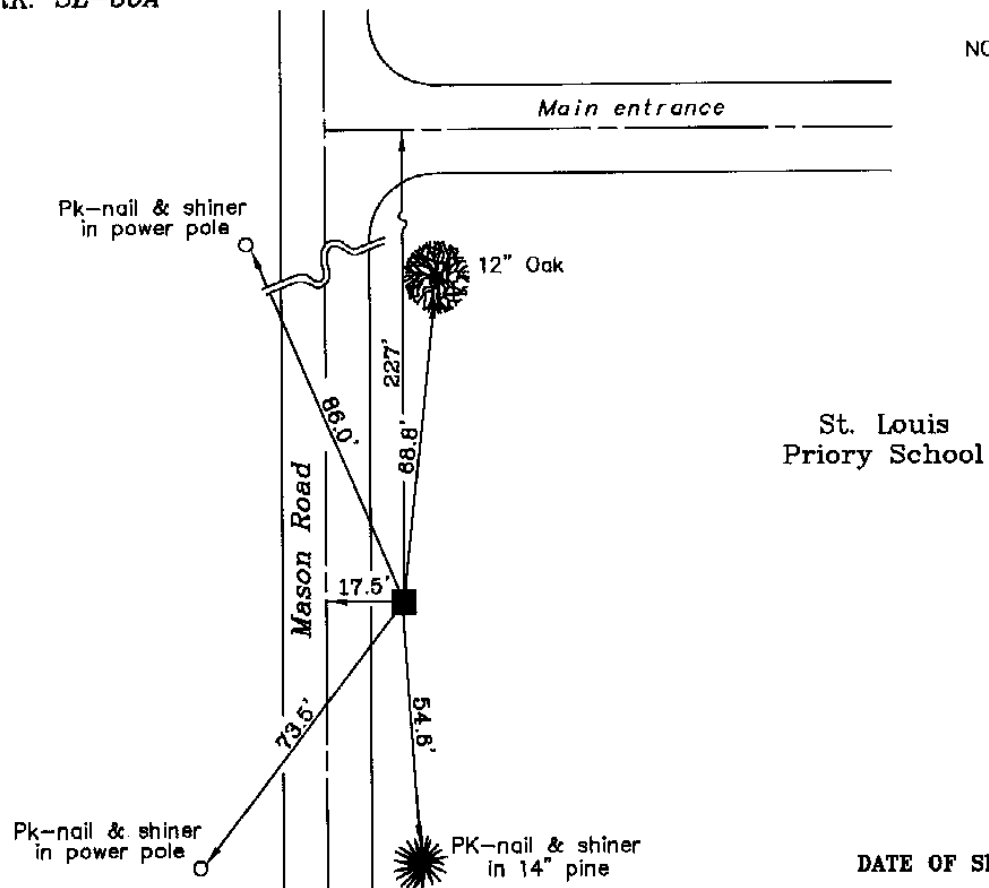
**DATE of REPORT, 2003**

STATION: SL-50

SHEET 3 OF 3



AZIMUTH MARK: SL-50A



DATE OF SKETCH 2003